

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/043028 A1

(51) International Patent Classification⁷: **H04L 27/26**

(21) International Application Number:
PCT/SE2002/002033

(22) International Filing Date:
7 November 2002 (07.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): TELEFONAKTIEBOLAGET LM ERICSSON (publ)
[SE/SE]; S-164 83 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LINDSKOG, Jan
[SE/SE]; Rådvägen 54, S-435 43 Pixbo (SE). RYD-
NELL, Gunnar [SE/SE]; Silleskärsgatan 47, S-421 59

Västra Frölunda (SE). WALTHER, Roger [SE/SE];
Berghemsgatan 16, S-431 37 Mölndal (SE). SJÖBERG,
Sten [SE/SE]; Blålockevägen 35, S-438 33 Landvetter
(SE). KRONQUIST, Göran [SE/SE]; Fräkenvägen 15,
S-443 70 Grabo (SE).

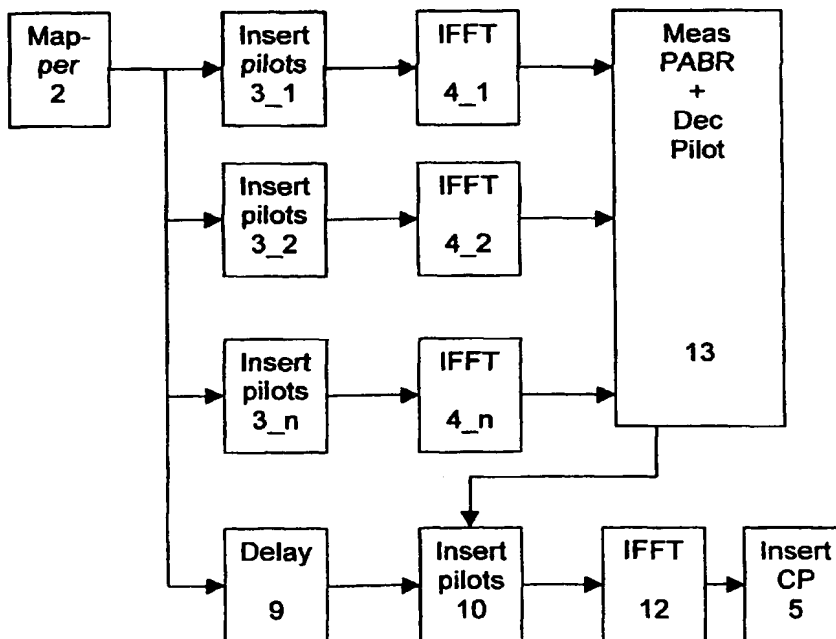
(74) Agent: ERICSSON AB; Patent Unit West, S-431 84 Möl-
ndal (SE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: PAPR REDUCTION



(57) Abstract: Method of communicating frames of digital data by OFDM modulated signals comprising a first plurality of payload carrying sub-channels and a second plurality of pilot carrying sub-channels, whereby consecutive frames of payload data are associated with a given pilot configuration and transmitted. Prior to the transmission of a frame of payload data, each of the plurality of pilot configurations are evaluated with regard to PAPR, whereby the pilot configuration being associated with the lowest PAPR value is being chosen for transmission.



European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

(15) Information about Correction:

see PCT Gazette No. 20/2005 of 19 May 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(48) Date of publication of this corrected version:

19 May 2005